

**PAINT SPRAY PARTICLE TRAJECTORY ANALYSIS METHOD AND SYSTEM****ABSTRACT OF THE DISCLOSURE**

5           A system and method of analyzing paint spray  
particle trajectory on a vehicle with a computer aided design  
(CAD) model representative of the vehicle. The method  
includes the steps of preparing a CAD model of a desired  
portion of the vehicle and placing a paint spray gun at a  
10 desired location with respect to the desired portion of the  
vehicle. The method also includes the steps of specifying a  
set of particle information describing particles to be sprayed  
from the paint spray gun and computing a trajectory for a  
particle stream emanating from the paint spray gun. The method  
15 further includes the steps of displaying the trajectory  
relative to the desired portion of the vehicle on a display to  
permit visual observation thereof and relocating the paint  
spray gun if necessary to achieve a desired trajectory.

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